L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1974:414192 CAPLUS
DN 81:14192
TI Fire-resistant polyester films
IN Shiozaki, Masahiro; Sakurai, Tsuneo; Saito, Hachiro; Kawamura, Junji; Funahashi, Kazutoshi
PA Teijin Ltd.
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
NCL 25(5)K111; 48D8
CC 36-3 (Plastics Manufacture and Processing)
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI JP 48096666 | A2 | 19731210 | JP 1972-29473 | 19720324 |
| PRAI JP 1972-29473 | | 19720324 | | |

AB Poly(ethylene terephthalate) (I) [25038-59-9] or poly(ethylene 2,6-naphthalenedicarboxylate) [**24968-11-4**] films or moldings are coated with **poly(ester carbonate)** derived from 2,2',6,6'-tetrabromobisphenol A (II), terephthalic acid (III) or its deriv., and 25-100 mole% (based on III or its deriv.) p-chloroformyloxybenzoyl chloride(IV) and(or) m-chloroformyloxybenzoyl chloride to give fire resistant products. Thus, 271.95 g II in 1.8 l. CHCl2CHCl2 at 0.deg. was mixed with 60.90 g terephthaloyl dichloride and 43.8 g IV, and to the clear mixt. 122 g Et3N was added for 30 min followed by stirring for 2 hr addnl. to give 335.0 g 4,4'-isopropylidenebis(2,6-dibromophenol)-terephthaloyl dichloride-p-chloroformyloxybenzoyl chloride copolymer (V) [51732-85-5] of intrinsic viscosity 1.22 (30.deg., CHCl2CHCl2). A 25-.mu. I film was coated with a mixt. of 200 g of the V and 890 g THF and dried to give a 35-.mu. film with O index 35 compared with 26 for I film.

ST fire resistance polyester film; polycarbonate polyester coating film; bromobisphenol A copolymer; terephthalate polyester; chloroformyloxybenzoyl chloride copolymer

IT Coating materials
(bromobisphenol-based polycarbonates, on polyester films, fire-resistant)

IT Fireproofing
(of polyester films, with tetrabromobisphenol-based polycarbonates)

IT **24968-11-4** 25038-59-9, uses and miscellaneous 25230-87-9
RL: USES (Uses)
(coatings on, fire-resistant)

IT 51732-85-5
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, on polyester films, fire-resistant)

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L9 ANSWER 28 OF 47 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:505806 CAPLUS
DN 131:117108
TI Polyester **polycarbonate** molding composition
IN Chisholm, Bret Ja
PA General Electric Company, USA
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C08L067-02
ICS C08L069-00
ICI C08L067-02, C08L069-00; C08L069-00, C08L067-02; C08L067-02, C08L069-00, C08L051-04; C08L069-00, C08L067-02, C08L051-04
CC 37-6 (Plastics Manufacture and Processing)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 933395 | A2 | 19990804 | EP 1999-300223 | 19990114 |
| | EP 933395 | A3 | 19991103 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| | SG 74114 | A1 | 20000718 | SG 1999-95 | 19990114 |
| | JP 11279389 | A2 | 19991012 | JP 1999-16457 | 19990126 |
| PRAI | US 1998-14828 | A | 19980128 | | |

AB A thermoplastic resin having enhanced glass transition temp., higher heat distortion temp., and uniform appearance comprises .apprx.10-90% of a polyester naphthanoate and .apprx.10-90% of an essentially amorphous polyester **polycarbonate** prepd. from a dicarboxylic acid and a dihydric phenol; and a quencher consisting of a phosphite having an acidic OH group, acidic **phosphate** salts, polyacid **pyrophosphates** with acidic salts, **phosphates** of Group IB and Group IIB metals, and phosphorus oxo-acids.

ST polyester **polycarbonate** blend thermoplastic molding; naphthalenedicarboxylate polyester **polycarbonate** blend

IT Molded plastics, uses
Polymer blends
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(Polyester **polycarbonate** molding compn.)

IT Polyesters, uses
Polyesters, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(**polycarbonate**-; Polyester **polycarbonate** molding compn.)

IT **Polycarbonates**, uses
**Polycarbonates**, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyester-; Polyester **polycarbonate** molding compn.)

IT Polyesters, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polymer blends; Polyester **polycarbonate** molding compn.)

IT Plastics, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(thermoplastics; Polyester **polycarbonate** molding compn.)

IT 2082-79-3, Irganox 1076 29598-76-3, Seenox 412S
RL: MOA (Modifier or additive use); USES (Uses)
(Polyester **polycarbonate** molding compn.)

IT 24936-68-3, Bisphenol a **polycarbonate**, uses **24968-11-4**
24968-12-5, Polybutylene terephthalate 25037-45-0 25038-59-9, uses
25053-09-2, Methyl methacrylate-butadiene-styrene copolymer 25230-87-9
26062-94-2, Polybutylene terephthalate **28605-06-3**

L18 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:603562 CAPLUS
DN 131:229601
TI Fire- and heat-resistant **polycarbonate**-polyester blend compositions containing cyclic **phosphates** and inorganic salts
IN Sato, Takahiro; Taketani, Yutaka
PA Teijin Chemicals Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08L069-00
ICS C08K013-02; C08L069-00; C08L067-02; C08L027-12; C08K005-523; C08K003-26; C08K003-32
CC 37-6 (Plastics Manufacture and Processing)
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI JP 11256021 | A2 | 19990921 | JP 1998-56773 | 19980309 |
| PRAI JP 1998-56773 | | 19980309 | | |

AB Title compns. comprise (A) **polycarbonates** 96-40, (B) polyesters 1-55, (C) cyclic **phosphates** 2-20, (D) inorg. salts selected from **carbonates** and **phosphates** of alk. earth metals .ltoreq.10, and (E) fluoropolymers 0.01-3 parts, where A + B + C + D + E = 100 parts and mol ratios of P atoms (from component C) to D .gtoreq.0.02. Thus, a compn. comprising Panlite L 1225WP 55.7, TR 8580 30, di-Ph pentaerythritol **diphosphate** (prepn. given) 12, Polyflon FA 500 0.3, and calcium **carbonate** 2 parts gave flammability (UL 94) V-0 and deflection temp. (JIS K 7207, 18.5 kg/cm2-load) 104.degree..
ST fire heat resistant **polycarbonate** polyester blend; cyclic **phosphate** fireproofing agent **polycarbonate** polyester; **carbonate** alk earth metal fireproofing compn; fluoropolymer Polyflon fireproofing compn; phenyl pentaerythritol **phosphate** fireproofing Panlite compn; calcium **carbonate** fireproofing compn
IT Polyesters, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(blends with **polycarbonates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT **Polycarbonates**, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(blends with polyesters; fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT Alkaline earth salts
RL: MOA (Modifier or additive use); USES (Uses)
(**carbonates** or **phosphates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT Fireproofing agents
Heat-resistant materials
(fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT Fluoropolymers, uses
RL: MOA (Modifier or additive use); USES (Uses)
(fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT Polymer blends
RL: TEM (Technical or engineered material use); USES (Uses)
(**polycarbonate**-polyester; fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT 3812-32-6, **Carbonate**, uses
RL: MOA (Modifier or additive use); USES (Uses)
(alk. earth metal salts; fire- and heat-resistant **polycarbonate**-polyester blend compns.)
IT **9020-32-0**, Polyethylene naphthalate 9020-73-9 24968-12-5, TRB-J 25038-59-9, TR 8580, uses 26062-94-2 **51806-50-9**,

1,4-Butanediol-naphthalenedicarboxylic acid copolymer, sru 52309-38-3
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(blends with **polycarbonates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 24936-68-3, Panlite L 1225WP, uses 25037-45-0, Bisphenol A-carbonic acid copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(blends with polyesters; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 14265-44-2, **Phosphate**, uses
RL: MOA (Modifier or additive use); USES (Uses)
(cyclic esters or alk. earth metal salts; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 471-34-1, Calcium **carbonate**, uses 513-77-9, Barium **carbonate** 546-93-0, Magnesium **carbonate** 7758-87-4, Calcium **phosphate** 9002-84-0, Polyflon FA 500
RL: MOA (Modifier or additive use); USES (Uses)
(fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 55120-33-7P, Diphenyl pentaerythritol **diphosphate** 97994-13-3P 239802-94-9P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(fireproofing agents; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 770-12-7P, Phenyl **dichlorophosphate** 18350-98-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(in prepn. of cyclic **phosphates** for fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 98-54-4, 4-tert-Butylphenol 108-95-2, Phenol, reactions 115-77-5, Pentaerythritol, reactions 576-26-1, 2,6-Dimethylphenol 10025-87-3, Phosphorus oxychloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(in prepn. of cyclic **phosphates** for fire- and heat-resistant **polycarbonate**-polyester blend compns.)

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**28779-82-0**
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polymer blends; Polyester **polycarbonate** molding compn.)

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1987:637778 CAPLUS
DN **107:237778**
TI Poly(ethylene naphthalenedicarboxylate)/polycarbonate blends
AU Anon.
CS USA
SO Research Disclosure (1987), 283, 667-9
CODEN: RSDSBB; ISSN: 0374-4353
DT Journal
LA English
CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 38

PC + PEN
102

AB Blends of poly(ethylene 2,6-naphthalenedicarboxylate) (I) or its copolyesters with 1-99 % polycarbonates were prepd. Impact modifiers such as EPR or EPDM rubber could also be in the blends. Films, fibers, molded objects, and melt blown containers could be made from pellet blends or from repelletized melt blends. Thus, I (inherent viscosity 0.72 dL/g)-Merlon M40 polycarbonate blends were extruded into rods and cut into 1/8-in. pellets. Blow-molded bottles prepd. from the blends did not distort when filled with boiling water and had good barrier properties with regard to permeation by O and CO2.

ST naphthalenedicarboxylate polyester blend polycarbonate; bottle polyester polycarbonate blend; oxygen permeability polyester polycarbonate blend; carbon dioxide permeability polyester blend

IT Permeability and Permeation
(of carbon dioxide and oxygen, through polycarbonate-polyester blends)

IT Polyesters, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(polycarbonate blends, prepn. and properties of)

IT Bottles
(polycarbonate-polyester blends for)

IT Polycarbonates, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(polyester blends, prepn. and properties of)

IT Rubber, synthetic
RL: USES (Uses)
(EPDM, impact modifiers Uniroyal X372, for polycarbonate-polyester blends)

IT 124-38-9, Carbon dioxide, properties 7782-44-7, Oxygen, properties
RL: PRP (Properties)
(permeation of, through polycarbonate-polyester blends)

IT 24968-11-4P 25230-87-9P, Ethylene glycol-2,6-naphthalenedicarboxylic acid copolymer
RL: SPN (Synthetic preparation); PREP (Preparation)
(polycarbonate blends, prepn. and properties of)

IT 24936-68-3P, Merlon M40, properties
RL: SPN (Synthetic preparation); PREP (Preparation)
(polyester blends with Merlon M40, prepn. and properties of)

IT 25971-63-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(polyester blends, prepn. and properties of)

IT 74-85-1
RL: USES (Uses)
(rubber, EPDM, impact modifiers Uniroyal X372, for polycarbonate-polyester blends)

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